

RC LACE Status 2011

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www.rclace.eu

- ✓ **LACE Program news**
- ✓ **LACE operative activities**
- ✓ **2012 R&D highlights
presentations
~ 2013-2015 plans**

- Refreshment of MG structure Area Leaders (2011/2012) :
Tomislav Kovacic for DA
Petra Smolikova for Dynamics&Coupling
- LACE Strategy - Scope of the scientific strategy for the next 6 years
 - LACE scientific priorities are:
 - to provide **scientific maintenance** of operative deterministic and ensemble ALADIN models at horizontal mesh size 18-10-5km,
 - to provide methods and **optimal use of high-resolution and national observations** for the purpose of data assimilation and analyses,
 - to deliver NWP research and provide **scientific inovations for 5-2km mesh**, for the next generation of operative models,
 - to explore the **scientific and operative options for the very high resolution** NWP topics.

- LACE options for sharing the operative applications:
- strength the partnerships : sharing of products, facilities, operations?
- **Options and Challenges on RC LACE Common Operation**

=>Wish for optimization without the major jump to common operations

- **Next RC LACE MoU (2013-2018)**
- **6year program, 2x3years cycle for Management Group**
 - Link to operative applications
 - No enlargement of activities toward climate modeling, nowcasting
- **Call for new Management Group (2013-2015)**

- **LACE WEB pages www.rclace.eu**
- **OPLACE (Observation Pre-processing LACE)**
- **National Data**
- **ALADIN-LAEF (Yong presentation)**

➤ **LACE WEB pages** www.rclace.eu

Hosted by SHMU, (maintained by LACE ASC)

- reports on research actions, **forums** on areas of R&D
- operative statuses
- operative products up to last 15 days at protected part
- Members deterministic models - 4 runs per day
- ALADIN-LAEF system products – 2 runs per day
- Product list: ALADIN Operational Products,
ALADIN pEPS Multigrams
LAEF-Probability charts
LAEF -EPSgrams

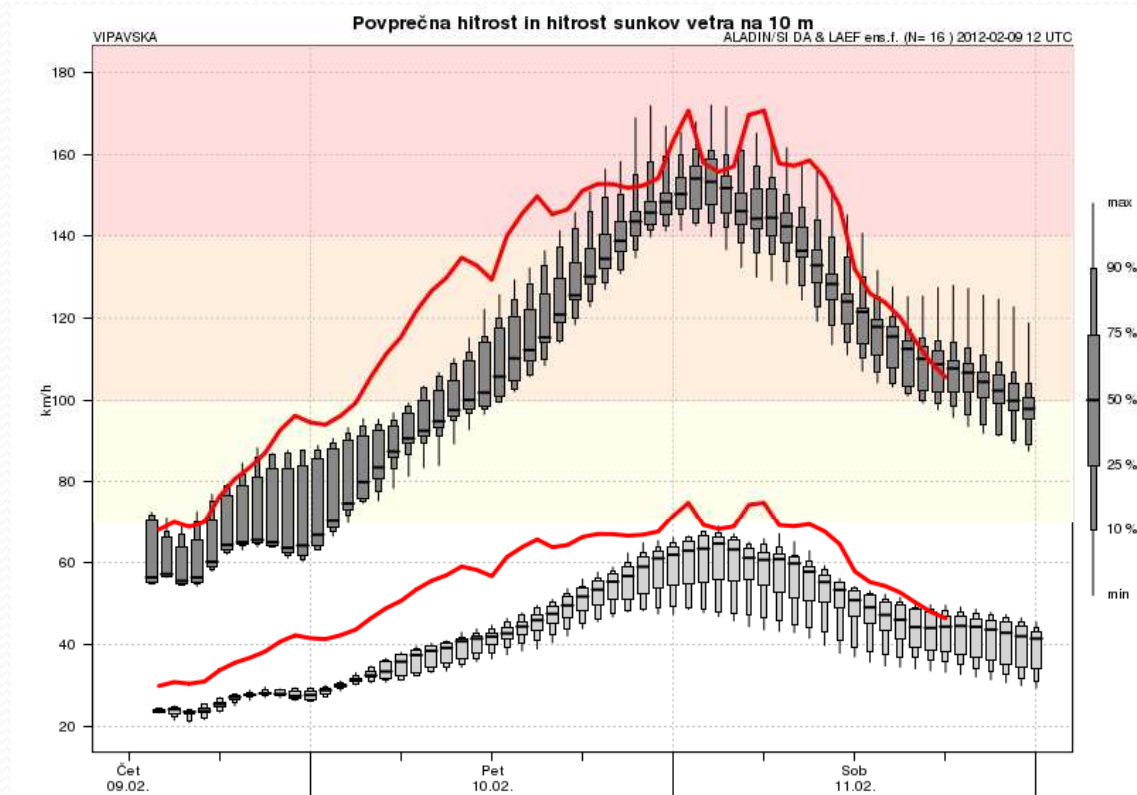
ALARO physics, different initialization

- operational:
 - At, CANARI assimilation cycle (cy35t1, 4.8 km)
 - Cz, CANARI+Blending assimilation cycle (cy36t1, 4.7 km)
 - Hr, 3D Var +CANARI data assimilation (cy32t3, 8 km)
CANARI initialization with o (cy36t1, 2 km)
 - Hu, 3D Var + CANARI data assimilation (cy35t1, 8 km)
in ensemble system
 - Ro, CANARI initialization with o (cy36t1, 6.5 km)
 - Si, 3D Var +CANARI data assimilation (cy35t1, 4.4 km)
 - Sk, CANARI+ Blending assimilation cycle (cy36t1, 9 km)
- In preparation:
 - Sk, new domain (~3.3 km, ~60 levels)

LAEF post processing

Adriatic sea: with extremely strong Bora wind

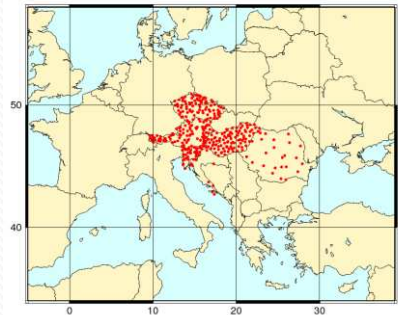
- red alarm for warnings
- **Wind, wind gusts**
- **ALARO 4.4km DA**
- **LAEF 18km**



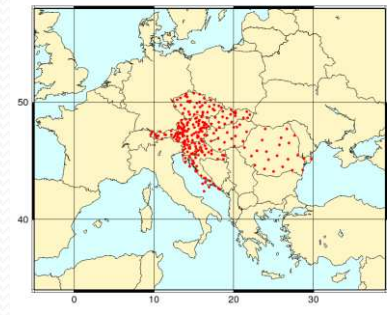
- **OPLACE (Observation Pre-processing LACE)**
 - **hosted by HMS, maintained by HMS and DM**
 - ❖ -upgrade to more observation types: GPS/EGVAP, Radar wind, reflectivity are planed
 - ❖ **green light for ALADIN-HIRLAM cooperation**
 - to define conditions for users
 - cost of maintenance, volume, national data policy
 - a test data for RMI
 - **requirements for no extra cost for LACE**

► Analyses of National Data access – reopened SYNOP -quantitative & qualitative overview -CANARI QC

Member	number of local stations
Austria	88
Croatia	12
Czech Republic	91
Hungary	100
Slovakia	0 9
Slovenia	43
Romania	24



national



OPLACE

RADAR

- a first step to common pre-processing in OPLACE radar data
- two months collection and test in passive mode

Decisions on data policy

4 Areas for R&D →

Continuation on LACE Project results (2008-2011)

YEAR 2011/2012 actions – interactions with ALADIN/HIRLAM

- **Dynamics and Coupling**
- **Physics (ALARO1 WD)**
- **Data Assimilation (LACE DA WDs, Web links)**
- **Predictability**

Future MO:

- 6 years scientific strategy
- 3 years projects
- 1 year operative plans with deliverables